

# Indian Journal of Experimental Biology

<http://www.niscair.res.in>; <http://nopr.niscair.res.in>

---

**VOLUME 55** **NUMBER 12** **DECEMBER 2017**  
 CODEN: IJEB (A6) 55 (12) 813-918 (2017) ISSN: 0019-5189 (Print); 0975-1009 (Online)

---

## CONTENTS

### Papers

- Pelargonidin-PLGA nanoparticles: Fabrication, characterization, and their effect on streptozotocin induced diabetic rats 819  
 Moumita Roy, Rajat Pal & Abhay Sankar Chakraborti\*
- Hydroxyacetamide derivatives: Cytotoxicity, genotoxicity, antioxidative and metal chelating studies 831  
 Supriyo Saha, Dilipkumar Pal\* & Sushil Kumar
- Anticataract potential of *Boerhavia diffusa* roots on galactose induced cataractogenesis 838  
 SVVNSM Lakshmi\*, A Sivamallikarjuna Reddy, S Ganapaty, B Ganga Rao & A Ramesh
- Effect of supplemental ultraviolet-B radiation on *Withania somnifera* L. (Dunal): An appraisal of morphological, physiological and biochemical characteristics 845  
 S Takshak & SB Agrawal\*
- In vitro* propagation and genetic stability assessment of an endangered terrestrial jewel orchid *Anoectochilus elatus* Lindl. 853  
 N Ahamed Sherif, T Senthil Kumar\* & MV Rao
- Boron and calcium chloride as possible ameliorators of fluoride toxicity in Wistar rats 864  
 NKS Gowda\*, D Rajendran, P Krishnamoorthy, NC Vallesha A Raghavendra, VB Awachat, G Maya & Swati Verma
- Fruit deformity in papaya: Field screening, nutrient composition and amelioration by boron application 870  
 Parmeshwar Lal Saran\*, Ravish Choudhary & Ishwar Singh Solanki
- Notes**
- Real-Time PCR assay and melting curve analysis for identification of diarrheagenic *Escherichia coli* in children 876  
 Taru Singh\*, Shukla Das, VG Ramachandran, Khan Amir Maroof & Arvind Rai
- Stomatal clustering pattern in *Arachis hypogaea* L. under water deficit stress 880  
 KA Kalariya\*, Deepti Mehta, Nisha Goswami, AL Singh, K Chakraborty, MK Mahatma, PV Zala & CB Patel

Cont.

Annual Author Index	884
Annual Subject Index	887
List of Experts	915

\*Author for correspondence

---

### Author Index

Agrawal SB	845	Lakshmi SVVNSM	838	Reddy AS	838
Awachat VB	864			Roy M	819
Chakraborti AS	819	Mahatma MK	880	Saha S	831
Chakraborty K	880	Maya G	864	Saran PL	870
Choudhary R	870	Mehta D	880	Sherif NA	853
Das S	876	Pal D	831	Singh AL	880
		Pal R	819	Singh T	876
Ganapaty S	838	Patel CB	880	Solanki IS	870
Goswami N	555				
Gowda NKS	864	Raghavendra A	864	Takshak S	845
		Rai A	876		
Kalariya KA	880	Rajendran D	864	Vallesha NC	864
Khan AM	876	Ramachandran VG	876	Verma S	864
Krishnamoorthy P	864	Ramesh A	838		
Kumar S	831	Rao BG	838	Zala PV	880
Kumar TS	853	Rao MV	853		

### Keyword Index

Activated charcoal	853	Galactitol	838	Photosynthesis	845,880
Aldose reductase	838	Genomic uniformity	853	Poly (D,L-lactide-co-glycolide) (PLGA)	819
Alkali soil	870	Groundnut	880	Punarnava,	838
Anthocyanidin	819	Growth retardants	880	Real-Time PCR	876
Anticancer	831	HDAC	831	Spreading hogweed	838
Antioxidant potential	831,838	Hyperglycemia	819	Stomatal behaviour	880
Antioxidants	853,845	Hyperlipidemia	819	Stratospheric ozone	845
Ascorbic acid	845	IAA oxidase activity	845	Stress	845
Ashwagandha	845	Indian ginseng	845		
Boron deficiency	870	Leaf toxicity	870	Tarvine	838
<i>Carica papaya</i>	870	Livestock	864	Thidiazuron (TDZ)	853
Cataract	838			Thiols	845
Chlorophyll	845	Metalloenzyme	831	$\alpha$ -Tocopherol	845
Conservation	853	Micropropagation	853	Transpiration	880
Diabetes mellitus	819	Mineral profile	864	UV-B	845
Diarrhoea	876	Molecular markers	853	Vitamin C	845
Drug delivery	819	Nanocapsulation	819	Vitamin E	845
<i>E. coli</i> infections	876	Oxidative stress	819,838		
Eastern Ghats	853			Western Ghats	853
Flavonoids	819	Peanut	880		
Fluorosis	864	Phenolics	845		